

CLAIMS

1. A fuel pump comprising an electric motor which has a commutator having a plurality of laminates and carbon brushes which slide over the laminates, and which has coils which are electrically connected to individual laminates and are arranged in slots in an armature, characterized in that a plurality of laminates (17) are covered by one carbon brush (11) in each case in each rotary position of the commutator (9) in relation to the carbon brushes (11).

2. The fuel pump as claimed in claim 1, characterized in that each of the carbon brushes (11) is as wide as two laminates (17) plus a single insulation layer (18) between the laminates (17).

3. The fuel pump as claimed in claim 1 or 2, characterized in that the number of laminates (17) of the commutator (9) corresponds to a multiple of the number of slots (7), and in that a plurality of half-coils (8) are arranged in a single slot (7) in accordance with the multiple of the number.

4. The fuel pump as defined in claim 1, wherein the carbon brush (11) for operating the electric motor (2) at 42 volts has a resistivity of 300 to 400 μOm .

5. The fuel pump as defined in claim 1 or 2, wherein the carbon brushes (11) are axially prestressed on a disk-like commutator (9) have a trapezoidal cross section and are arranged with the narrow end of the trapezoid close to a shaft (12) of the electric motor (2).